

May 7, 1923

SUPPLEMENTAL PLAN WITH ESTIMATES
FOR
RECLAMATION WORKS
FOR
ISLAND RECLAMATION DISTRICT NO. 2062.

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Filed April 27, 1923
Eugene D. Graham, Co. Clerk
Ruf S. A. Carter Deputy Clerk

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SUPPLEMENTAL PLAN WITH ESTIMATES FOR RECLAMATION WORKS

FOR ISLAND RECLAMATION DISTRICT NO. 2062.

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TO THE BOARD OF SUPERVISORS OF THE COUNTY OF SAN JOAQUIN,
and to the RECLAMATION BOARD OF THE STATE OF CALIFORNIA.

The duly elected, qualified and acting Board of Trustees
of Island Reclamation District No. 2062, respectfully reports:

that at a duly and regularly held meeting of said Board
of Trustees on the date of the signing hereof, at which all
the trustees of said reclamation district were present and
voting, said Board of Trustees adopted a supplemental plan for
works of reclamation for said reclamation district in addition
to works of reclamation reported under the original plan
accompanied by specifications and estimates filed with the
County Clerk of the County of San Joaquin, State of California,
on the 16th day of September, 1922, and thereafter approved by
said Reclamation Board on the 9th day of November, 1922.

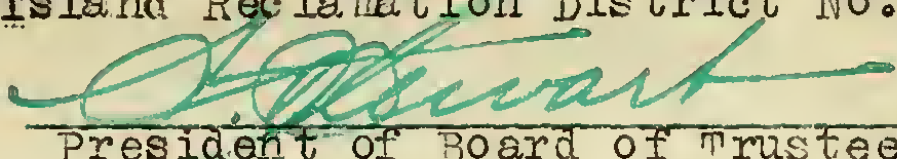
That said supplemental plan so adopted, together with
specifications and estimates of the cost of the reclamation
works contemplated thereby, including incidental expenses,
maintenance and repair necessary for the reclamation of the
lands of the district in pursuance of said supplemental plan
is that contained in the report of F. C. Herrmann, consulting
civil engineer, hereto attached, marked Exhibit "A", and by
reference thereto made a part hereof.

That in addition to the foregoing said Board of Trustees reports that under the original plan adopted by said Board an assessment in the sum of Two Hundred Fifty Thousand Dollars (\$250,000.00) has been levied on the lands within said reclamation district, and the assessment list therefor is on file in the office of the County Treasurer of the County of San Joaquin, State of California, and bonds in the full amount thereof have been issued; that said amount for which said assessment was so levied is hereby deducted from the aggregate estimate mentioned in said Exhibit "A" leaving the sum of One Hundred Fifty Thousand and 00/100 Dollars (\$150,000.00) as a balance required for the completion of such reclamation works; and that the Board of Trustees of said reclamation district hereby estimates the cost of the reclamation works contemplated by the supplemental plan so adopted by said Board and hereinbefore mentioned, at said sum of One Hundred Fifty Thousand and 00/100 Dollars (\$150,000.00).

Dated and signed this 25th day of April, 1923.

Island Reclamation District No. 2062

By


President of Board of Trustees of
said Reclamation District.

By

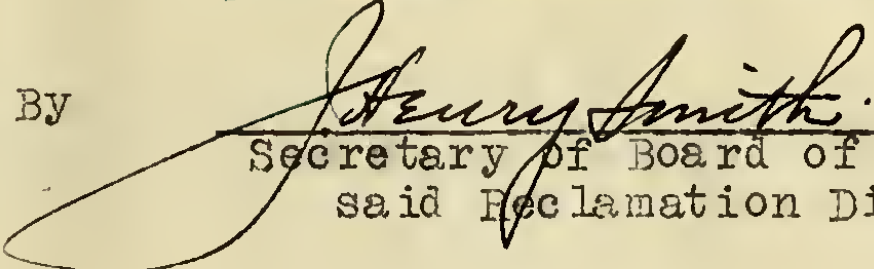

Secretary of Board of Trustees of
said Reclamation District.

EXHIBIT "A".

REPORT

ON

MODIFICATION OF PLANS AND ESTIMATE

OF REPORT OF FEBRUARY 10th, 1923,

FOR

DRAINAGE AND IRRIGATION

OF

ISLAND RECLAMATION DISTRICT No. 2062

F. C. HERRMANN

April 16
1923

F. C. HERRMANN
CONSULTING CIVIL ENGINEER

SAN FRANCISCO, April Sixteenth
1 9 2 3

Mr. A. O. Stewart, President,
Island Reclamation District No. 2062,
Holbrook Building,
San Francisco.

Dear Sir:

I beg to submit herewith a report on the irrigation and drainage systems of Island Reclamation District No. 2062, which covers modifications in the plans and estimates of February 10th, 1923, on the same subject, under which report permission was granted to Reclamation District No. 2062 by the State Reclamation Board to proceed with the work therein proposed. The necessary modifications taken up in the order of the items listed on Page 7 of the report of February 10th, 1923, are as follows:

1. Actual Cost of Levees Paid to Contractors

Since the report of February 10th, 1923, there has been done some additional work on the River Levee to connect it with the embankment of the Southern Pacific Railway Company, and some additional work to provide relief for the Junior Levee in the Paradise Cut. The cost of this additional work was \$3,019.60, making the total cost at this time for this item \$134,121.52.

2. Actual Cost of Surveys and Inspections

Since the report of February 10th, 1923, a pre-

liminary survey has been made for the Main Drainage Canal and for the Irrigation and Drainage pumping plants. The cost of this work together with inspection of the extra work above described was \$1,199.96, making the total for this item at this time, \$5,206.06.

3. Clearing 788 Acres in the Suggested By-pass Area East of the Junior Levee

This work has been carried on immediately under your direction and independently of the other construction and engineering work.

At the time of my report of February 10th, 1923, you had entered into a contract for clearing this land and the estimate of \$80 per acre for clearing contained in the report was based on this contract price. The contractor found it impossible to do the clearing at the contract price so that you were forced to release him and are now doing the work by force account at an estimated cost of \$100 per acre. The estimated cost of clearing these 788 acres, based upon what it is now costing you, should therefore be increased from \$63,040.00 to \$78,800.00.

4. Drainage Canals

Since the report of February 10th, 1923, a preliminary survey has been made of the Main Drainage Canal. It was decided to make this canal deeper and larger than indicated in the report, and you have just let a contract to construct this with a floating ditcher for the lump sum of \$7,200.00. No topographic survey has yet been

made of the District nor have surveys been made of the proposed sub-drains. The surface of the ground is quite uneven and prior to surveys only approximations can be made of the work necessary for sub-drains. There are approximately 90,000 cubic yards to be excavated in the construction of the sub-drains which at 15¢ per cubic yard will amount to \$13,500.00. Therefore, the item in the estimate of February 10th, 1923, for Drainage Canal, (\$18,000.00), is superseded by two items as follows:- Main Drain, \$7,200.00, and Sub-drains, \$13,500.00.

5. Clearing for Seepage Ditch

No surveys have been made for the Seepage Ditch. It is projected to pass through areas which for a large part are covered with dense growth. This clearing was included in the contract for clearing mentioned under Drainage Canals, from which contract the contractor has been released.

The growth to be cleared was supposed to be scrub oak but upon careful investigation you find that it is a out over area, the brush being a second growth from a mass of large oak stumps. You will probably have to do this work by force account at a cost very much more than the contract price and by reason of its character, at a cost in excess of the cost of other clearing you are doing. This item should be increased from \$15,100.00 to \$27,000.00.

6. Irrigation Pumping Stations

In the report of February 10th, 1923, it was assumed that the land to be irrigated would be properly levelled, ditched and checked and that irrigation would proceed at night time as well as in day time, as is the custom for successful irrigation. Under these conditions it was planned to provide four pumps with a combined capacity of 50 second feet or about 1 second foot for 80 acres. However, for the present the tenants propose to only rough level the land, utilise natural sloughs and over-flow channels to transport the water. They have prepared large areas for beans and potatoes and must have irrigation water immediately to rapidly flood these lands. Because of these conditions it has been decided to instal in lieu of the four plants called for in the report of February 10th, 1923, the following:

Plant No. 9 - 16"-18" centrifugal pump belt driven by a 75 H.P. motor having a capacity of 7,000 gallons per minute and located on the left bank of the San Joaquin River about 1,000 feet northerly from the Southern Pacific Company's right of way.

Plant No. 10 - 16"-18" centrifugal pump belt driven by a 60 H.P. motor having a capacity of 7,600 gallons per minute and located on the left bank of the San Joaquin River about 10,000 feet northwesterly from the Southern Pacific Company's right of way.

Plant No. 12 - 18"-22" centrifugal pump belt driven by a 100 H.P. motor having a capacity of 13,000 gallons per minute and located on the left bank of the San Joaquin River about 15,000 feet northwesterly of the Southern Pacific Company's right of way.

Plant No. 13 - 16"-18" centrifugal pump belt driven by a 60 H.P. motor having a capacity of 8,000 gallons per minute and located at a point on the Junior Levee about 8,000 feet northwesterly of the Southern Pacific Company's right of way.

Plant No. 14 - 18"-22" centrifugal pump belt driven by a 100 H.P. motor having a capacity of 12,500 gallons per minute and located at a point on the Junior Levee about 2,000 feet northwesterly from the Southern Pacific Company's right of way.

Contract has been let for the purchase and installation of these pumping plants at a cost of \$27,500.00. The item for irrigation pumps should therefore be increased from \$10,000.00 in the estimate of February 10th, 1923, to \$27,500.00 for the modified plans.

7. Additional Work

Under this modified plan it becomes necessary to deepen a part of the borrow pit of the Junior Levee that it may supply water at low tide to Pump Station No. 14. Contract has been let for this work at an estimated cost of \$3,000.00.

Engineering, Legal and Incidental.

Putting this item at about 10% of the actual and estimated construction cost not including the cost of clearing and the purchase of rights of way for levees and canals, gives about \$20,000.00, and there is used for this item the sum of \$21,208.42 in lieu of \$26,208.00 used in the report of February 10th, 1923.

Following is a summary covering the actual cost of the completed levees, costs of modified plans where contracts have been let and purchases made, and modified approximate estimates where contracts and purchases have not yet been made nor force account work on clearing completed - all on a cash basis:

Actual cost of levees paid to contractors	\$ 134,121.52	
" " " surveys and inspections	5,206.06	
" " " levee right of way	<u>40,000.00</u>	
		\$ 179,327.58
Contract for main drain	\$ 7,200.00	
" and purchases irrig. pumping plants	27,500.00	
" for deepening junior levee borrow pit	<u>3,000.00</u>	57,700.00
Clearing in progress 788 acres @ \$100	\$ 78,800.00	
" " " for seepage ditch	<u>27,000.00</u>	105,800.00
Approximate estimate sub-drains 90,000 cu. yd. @ 15¢	\$ 13,500.00	
Approximate estimate seepage ditch 13.7 miles @ \$720	9,864.00	
Right of way for drainage ditches 98 Acres @ \$200	19,500.00	
Estimated cost drainage pumps	<u>13,000.00</u>	<u>55,964.00</u>
		\$ 378,791.58
Engineering and Inspection		<u>21,208.42</u>
		<u>\$ 400,000.00</u>

Attached hereto are maps and plans in accord with the modified plans as follows:

- Exhibit B - Map showing approximate location of Drainage Canals and Seepage Ditch.
- Exhibit C - Plan of Drainage Pumping Plant.
- Exhibit D - Plan for Irrigation Pumping Plant No. 8 which is essentially the same as Plants No. 10 and No. 13. All are equipped with 18"-18" centrifugal pumps and 20" discharge and suction pipe with concrete collars though Plant No. 9 has a 75 H.P. motor while Plants No. 10 and No. 13 have 60 H.P. motors each.
- Exhibit E - Plan for Irrigation pumping plant No. 12 which is essentially the same as Plant No. 14 both having 18"-22" centrifugal pumps with 100 H.P. motors and 24" suction and discharge pipes with concrete collars.

Respectfully submitted,

J. A. Herrmann

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